

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 16 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: -----

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 453.303 Feet. 138.1670 Meters

POSITION DATA (N.A.D. 1983/86): Second Order Class II COE GPS
Geodetic Position: f= ' " l= E ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,824,942.4750 Northing: 1,482,363.7430

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 1 AZI	E ' "	0" 12' 59"	5326.9280
	E ' "	E ' "	
	E ' "	E ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located at Hutton; at the intersection of 57 West Road and 57 South Road, in the SE 1/4 of the intersection; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground; a Department of Natural Resources brass control station tablet stamped "Bayou 1 1993."

BAYOU 1: 74.5 feet southeast of end across the road (57 West Road) from a utility pole with transformer and guy wire
66.1 feet southwest of and across the road (57 West Road) from a utility pole.
61.4 feet southeast of and across the road (57 West Road) from a metal stop sign post
14.4 feet east-northeast of a telephone riser box
10.8 feet south of the centerline of 52 West Road
5.8 feet east of the extended centerline of 57 South Road
2.7 feet east of the east most metal post of a road direction sign
2.3 feet east of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 4 Twp. 10N Ran. 10Q , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

Elevation: 457.399 Feet. 139.4156 Meters

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,824,962.6000 Northing: 1,487,690.6330

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 1	o ' "	180 o 12' 59 "	5326.9280
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

31.7 feet northeast of a utility pole located on the west side of 57 South Road
17.7 feet southeast of a utility brace pole
7.0 feet east of the extended centerline of 57 South Road
5.3 feet east of the east most metal post of a directional road sign
3.0 feet south of the extended centerline of Athrop Road
2.5 feet south of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 20 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 468.935	Feet. 142.9316 Meters

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,824,362.5800 Northing: 1,474,475.6760

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 2 AZI	o ' "	269 o 59' 51.3"	3356.1220
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

BAYOU 2: 50.1 feet east of the centerline of 85 West Road
41.0 feet northeast of and across 67 West Road from a telephone riser box
23.2 feet east of a utility pole with a transformer
11.7 feet north of the centerline of 67 West Road
3.1 feet south of an orange D.N.R. witness post
1.0 foot below the level of the roadway

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 20 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: -----

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 453.487 Feet. 138.2232 Meters

POSITION DATA (N.A.D. 1983/86): Second Class Order II COE GPS
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: Zone, Easting: Northing: -----

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 2	o ' "	89 o 59 '51.3"	3356.1220
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 1.7 miles southwest of Hutton; 0.7 mile west along 67 West Road from its intersection with 85 West Road to the station on the south side of the road; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground; a Department of Natural Resources brass control station tablet, stamped "Bayou 2 AZI 1993."

BAYOU 2 AZI:
294.0 feet west of a private drive to the south
194.5 feet southwest of and across the road from a utility pole
147.0 feet west of a willow tree
144.2 feet southeast of and across the road from a utility pole
142.1 feet east of a metal telephone riser box
14.3 feet south of the centerline of 67 West Road
2.3 feet north of an Orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 26 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 448.920	Feet. 136.8312 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,804,343.9550 Northing: 1,469,271.9910

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 3 AZI	0° 12"	90° 22' 12"	4619.854
	0° 12"	0° 12"	
	0° 12"	0° 12"	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

BAYOU 3: 1,056 feet southeast of the ramp at the Darwin Ferry
 88.8 feet east of the east toe of slope of the Wabash River levee
 15.7 feet south of the centerline of Darwin Ferry Road
 3.0 feet north of an orange D.N.R. witness post
 1.6 feet north of a metal T fence post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 26 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 447.231	Feet. 136.3163 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,808,963.7130 Northing: 1,469,242.1600

Mark	Name	Geodetic	Azimuth	Grid	Azimuth	Grid	Distance (feet)
Bayou	3	o	' "	270	o 22 ' 12 "		4619.854
VIGO	21	o	' "	213	o 02 ' 25 "		4436.6418
VIGO	22	o	' "	196	o 07 ' 15 "		8254.9873

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

BAYOU 3 AZI:

24.2 feet northwest of the north edge of Oxendine Bayou
4.4 feet west of the extended centerline of 75 South Road
3.5 feet north of a metal "T" fence post
3.0 feet north of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 1 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 460.807	Feet. 140.4544 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,813,509.4610 Northing: 1,490,545.4490

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 4 AZI	0 ' "	230 0 38' 50 "	4450.810
	0 ' "	0 ' "	
	0 ' "	0 ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

BAYOU 4: 144.0 feet northeast of and across 83 West Road from a utility pole
117.2 feet northwest of and across 83 West Road from a utility pole
33.9 feet southwest of a tree that has been struck by lightning
26.0 feet west of the extended centerline of 71 South Road
30.1 feet north of the centerline of 83 West Road (Robertson Road)
6.0 feet above the level of the road
3.3 feet south of an orange D.N.R. witness post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA

Project Name:	Greenfield Bayou	County:	Vigo	Station Code and No.	Bayou 4 AZI
Sec. 1	Twp. 10N	Ran. 11W	2nd P.M.	USGS 7.5' Quad:	Hutton
Agency Established by:	DNR/Water			Date:	1993
Agency Recovered by:				Date:	

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)

Elevation:	Feet.	Meters
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ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)

Elevation:	461.445	Feet.	140.6488	Meters
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POSITION DATA (N.A.D. 1983/86): Second Class Order II COE GPS

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,810,067.8440 Northing: 1,487,723.2190

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 4	o ' "	50 o 38' 50 "	4450.810
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 2.9 miles northwest of Hutton; approximately 4.65 miles west-southwest along 83 West Road (Robertson Road - Little Road) from its intersection with 51 South Road (Arbuckle Road) to the station located on the northwest side of 83 West Road (Robertson Road - Little Road), on top of the levee; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground; a Department of Natural Resources brass control station tablet, stamped "Bayou 4 AZI 1993."

BAYOU 4 AZI:

61.6 feet northwest of and across 83 West Road from a utility pole
49.7 feet southeast of a 10.0 inch ash tree
32.1 feet northwest of the centerline of 83 West Road
7.5 feet above the level of the road
3.4 feet east of an orange D.N.R. witness post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou Station Code and No. Vigo 14
County: Vigo Civil Twp: Prairie Creek
Sec. 18 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: -----

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 466.290 Feet. 142.1254 Meters

POSITION DATA (N.A.D. 1983/86): Second Order Class II COE GPS
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,816,009.1700 Northing: 1,481,275.5450

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
T 293	o ' "	268 o 51' 18 "	9596.5343
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located at Big Knoll; on the west side of Big Knoll, on the south side of 57 West Road (Little Road); set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete post, about level with the ground; a Department of Natural Resources brass control station tablet, stamped "VIGO 14, 1993."

VIGO 14: 93.2 feet southwest of the southwest corner of residence (#9615)
 38.9 feet southeast of and across the road from a satellite dish
 29.1 feet west of a utility pole with a transformer and a guy wire to the west
 19.2 feet south of the centerline of 57 West Road (Little Road)
 2.6 feet north of an orange D.N.R. witness post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
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PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou Station Code and No. T 293
County: Vigo Civil Twp: Prairie Creek
Sec. 14 Twp. 10N Ran. 11W, 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: USC & GS Date: 1956
Agency Recovered by: DNR/Water Date: 1993

ELEVATION DATA (N.G.V.D. 1929):
Elevation: 452.447 Feet. 137.906 Meters
ELEVATION DATA (N.A.V.D. 1988):
Elevation: 452.082 Feet. 137.7949 Meters

POSITION DATA (N.A.D. 1983/86): Second Order Class II COE GPS
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,806,414.5520 Northing: 1,481,083.7730

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
VIGO 14	o ' "	88 o 51' 18 "	9596.5343
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 3.5 miles west of Hutton; at the intersection of 57 West Road (Little Road) and 83 West Road (Robertson Road), in the Southeast quarter of the intersection; set in the top of a concrete post, about level with the ground; a U.S. Coast and Geodetic Survey benchmark tablet, stamped "T 293 1956."

T 293: 98.6 feet northeast of the northeast corner of a residence
 45.3 feet south of and across 57 West Road from a utility pole #FW-T 105
 39.7 feet southwest of a mailbox
 22.9 feet south of the centerline of 57 West Road
 20.4 feet east of the extended centerline of 83 West Road
 3.1 feet south-southwest of an orange NGS witness post
 3.0 feet south of utility pole #FW-T 106 with transformer and guy wire

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairieton
Sec. Twp. Ran. , P.M. USGS 7.5' Quad: Hutton
Agency Established by: U.S. Coast & Geodetic Survey Date: 1956
Agency Recovered by: DNR/Water Date: 1993

ELEVATION DATA (N.G.V.D. 1929):
Elevation: 454.192 Feet. 138.438 Meters
ELEVATION DATA (N.A.V.D. 1988):
Elevation: 453.844 Feet. 138.332 Meters

POSITION DATA (N.A.D. 1983):
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: Zone, Easting: Northing:

AZIMUTH DATA:
Mark Name | Geodetic Azimuth | Grid Azimuth | Grid Distance (feet)
o ' "	o ' "	
o ' "	o ' "	
o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 3.5 miles northeast of Hutton; at the intersection of 81 West Road (Dosch Road) and 51 South Road (Arbuckle Road), in the northeast quadrant of the intersection; set in the top of a concrete post, about level with the ground; a U.S. Coast and Geodetic Survey bench mark tablet, stamped "M293 1956".

M293: 32.8 feet north of the centerline of Arbuckle Road
 16.7 feet north of the centerline of Dosch Road
 7.1 feet west of a metal telephone junction box
 4.9 feet west of a utility pole
 0.8 feet south of an orange D.N.R. witness post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou Station Code and No. X 293
County: Vigo Civil Twp: Prairie Creek
Sec. 13 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: U.S. Coast and Geodetic Survey Date: 1956
Agency Recovered by: DNR/Water Date: 1993

ELEVATION DATA (N.G.V.D. 1929):
Elevation: 448.615 Feet. 136.738 Meters
ELEVATION DATA (N.A.V.D. 1988):
Elevation: 448.247 Feet. 136.6260 Meters

POSITION DATA (N.A.D. 1983/86):
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: Zone, Easting: Northing:

AZIMUTH DATA:
Mark Name | Geodetic Azimuth | Grid Azimuth | Grid Distance (feet)
o ' "		o ' "
o ' "		o ' "
o ' "		o ' "

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 1.25 miles west of the Big Knoll; at the intersection of 57 West Road (Little Road) and 75 South Road, in the Southeast quadrant of the intersection; at a culvert under 57 West Road; set on top of a copper coated steel rod (driven to a depth of 60 feet) inside a 4 inch tile, 0.2 foot below the level of the ground; a U.S. Coast and Geodetic Survey bench mark tablet, stamped " X 293 1956"

X293: 123.8 feet east of the centerline of 75 South Road
19.4 feet southeast of and across 57 West Road from the east end of the north concrete headwall of the culvert
10.9 feet south of the centerline 57 West Road
1.7 feet east of the east end of the south concrete headwall of the culvert
0.9 feet east of an orange NGS witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 14 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: U.S. Coast and Geodetic Survey Date: 1956
 Agency Recovered by: DNR/Water Date: 1993

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation: 448.099 Feet.	136.581 Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 447.697 Feet.	136.4583 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

U 293: 38.6 feet south of the centerline of the levee to the west
24.7 feet northeast of a 36 inch oak tree
22.2 feet west of the centerline of 75 South Road
1.8 feet east-southeast of a metal T fence post
1.5 feet east of an orange NGS witness post

PRIMARY SURVEY CONTROL DATA

Project Name:	Greenfield Bayou	County:	Vigo	Civil Twp:	Prairieton
Sec. 5	Twp. 10N	Ran. 10W	, 2nd P.M.	USGS 7.5' Quad:	Hutton
Agency Established by:	U.S. Coast and Geodetic Survey			Date:	1956
Agency Recovered by:	DNR/Water			Date:	1993

Elevation: 457.804 Feet. 139.5389 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

PRIMARY SURVEY CONTROL DATA

Station Code and No. DRAKE

ELEVATION DATA (N.G.V.D. 1929) :

ELEVATION DATA (N.A.V.D. 1988):

POSITION DATA (N.A.D. 1983) :

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	0' "	0' "	
	0' "	0' "	
	0' "	0' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

DRAKE:

- 77.7 feet west of the northwest corner of the church
- 60.5 feet northwest of a light pole
- 45.7 feet southwest of USGS BM TT 19D
- 43.0 feet south of a P. K. rail set in the centerline of 47 West Road
- 39.9 feet northwest of the northwest corner of the steps leading to the church
(on the West side of the church)
- 37.9 feet southeast of a P. K. nail set in P/P #307-002

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairieton
 Sec. 33 Twp. 11N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	465.469 Feet. 141.8751 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,830,317.0605 Northing: 1,494,403.8354

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 12: 86.9 feet west of the centerline of 85 West Road
19.6 feet northwest of a utility pole
19.3 feet south of the centerline of 83 West Road
10.7 feet east of the extended centerline of 51 South Road
6.4 feet east of a metal stop sign post
3.2 feet northeast of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 9 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 471.108 Feet.	143.5940 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	O ' "	O ' "	
	O ' "	O ' "	
	O ' "	O ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 17:

8.9	feet west of the centerline of 85 West Road
1.3	feet northwest of the northwest corner of the north end of the west concrete guardrail
0.6	foot above the level of the road
0.55	foot northeast of the southwest face of the northwest wingwall of the bridge
0.45	foot southwest of the northeast face of the northwest wingwall of the bridge

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 19 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 446.858 Feet.	136.2027 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 1.3 miles south of the Big Knoll; at the 67 West Road Bridge over Negro Ditch; set in the top of the northeast wooden bridge abutment, about level with the asphalt bridge deck; a dome headed bolt, stamped "Vigo 18 1993."

Vigo 18: 13.2 feet north of the centerline of 67 West Road
2.5 feet south of the north end of the bridge abutment
0.5 foot east of the west edge of the bridge abutment
0.5 foot west of the east edge of the bridge abutment

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 24 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	443.965 Feet. 135.3209 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,811,633.8917 Northing: 1,472,022.7100

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	O ' "	O ' "	
	O ' "	O ' "	
	O ' "	O ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 19: 120 feet northwest of and across 67 West Road from a twin trunk 8 inch cottonwood tree
18.5 feet northwest of the centerline of 67 West Road
12.5 feet south of the south edge of a ditch
3.7 feet south of an orange D.N.R. witness post
3.5 feet south of a metal fence post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 32 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: -----

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 492.885 Feet. 150.2317 Meters

POSITION DATA (N.A.D. 1983/86): Second Order Class II DNR
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,823,836.4437 Northing: 1,463,923.5012

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 3.5 miles south of Hutton; at the intersection of 85 West Road and 77 West Road, in the northeast quadrant of the intersection; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground, about 1.5 feet below the level of the road; a Department of Natural Resources brass control station tablet stamped "Vigo 26 1993."

VIGO 26: 47.5 feet northeast of and across 77 West Road from a telephone riser box
 42.8 feet east of the centerline of 85 West Road
 21.0 feet east-southeast of a wooden fence corner post
 19.0 feet north of the centerline of 77 West Road
 16.7 feet east of a metal stop sign post
 2.3 feet south of a fence line
 2.2 feet south of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 32 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation: Feet.	Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 479.630 Feet.	146.1917 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	O ' "	O ' "	
	O ' "	O ' "	
	O ' "	O ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 27: 34.0 feet south of the centerline of 73 West Road
27.2 feet north of the extended centerline of a farm lane to the west
12.5 feet east of the centerline of 85 West Road
2.5 feet below the top of the south end of the east concrete guardrail
0.4 feet east of the base of the south end of the east concrete guardrail

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 29 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	460.836 Feet. 140.4630 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 28: 11.8 feet east of the centerline of 85 West Road
2.7 feet below the bottom edge of the aluminum guardrail
1.5 feet below the level of the road
0.85 foot north of the south edge of the bridge seat
0.6 foot east of the west end of the bridge seat

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 24 Twp. 10N Ran. 11W , P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	446.513 Feet. 136.0974 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,809,013.2540 Northing: 1,471,889.2915

Mark Name	Geodetic	Azimuth	Grid	Azimuth	Grid Distance (feet)
Bayou 3 AZI	0	' "	0	' "	
	0	' "	0	' "	
	0	' "	0	' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 31: 46.5 feet east of and across 75 South Road from a 5/8" rebar and aluminum cap
35.4 feet east of the centerline of 75 South Road
29.2 feet north of and across 57 West Road from a 5/8" rebar and aluminum cap
13.8 feet north of the centerline of 57 West Road
4.1 feet west of an orange D.N.R. witness post
4.0 feet west of a metal fence post
3.5 feet east of a metal T fence post

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou Station Code and No. VIGO 13
County: Vigo Civil Twp: Prairieton
Sec. 6 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: -----

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 450.328 Feet. 137.2603 Meters

POSITION DATA (N.A.D. 1983/86):
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: Zone, Easting: Northing:

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located approximately 1.8 miles northwest of Hutton; approximately 2.65 generally southwest along 83 West Road (Robertson Road) to a private drive which extends northwest over a levee; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground; a Department of Natural Resources brass control station tablet, stamped "VIGO 13 1993."

VIGO 13: 47.0 feet south of a multi trunk maple tree
 40.2 feet west of the centerline of the private drive
 31.6 feet northeast of a utility pole #FW-T 45
 26.3 feet north of the centerline of 83 West Road (Robertson Road)
 2.0 feet south of an orange D.N.R. witness post
 1.3 feet south-southeast of a metal T fence post
 0.9 feet below the level of the road (83 West Road)

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

PRIMARY SURVEY CONTROL DATA

PROJECT DATA
Project Name: Greenfield Bayou Station Code and No. VIGO 15
County: Vigo Civil Twp: Prairie Creek
Sec. 18 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date: 1993

ELEVATION DATA (N.G.V.D. 1929): Second Order Class II (DNR)
Elevation: Feet. Meters
ELEVATION DATA (N.A.V.D. 1988): Second Order Class II (DNR)
Elevation: 453.867 Feet. 138.3390 Meters

POSITION DATA (N.A.D. 1983/86): Second Order Class II DNR
Geodetic Position: f= ' " l= o ' "
INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)
State Plane Coordinates: W Zone, Easting: 2,816,998.5791 Northing: 1,482,377.1306

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

The station is located at the Big Knoll; at the intersection of 69 South Road and 57 West Road, in the southwest quadrant of the intersection; set in the top of a concrete post, inside a 2 ft. x 2 ft. concrete pad, about level with the ground, and about 3 feet above the level of 57 West Road; a Department of Natural Resources brass control station tablet, stamped "VIGO 15 1993".

VIGO 15: 528 feet north of residence #12405
 45 feet south of the extended centerline of 57 West Road
 7 feet west of the extended centerline of 57 West Road
 4.0 feet east of an orange DNR witness post
 3.4 feet east of a metal T fence post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 20 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	468.532 Feet. 142.8090 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	O ' "	O ' "	
	O ' "	O ' "	
	O ' "	O ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 16: 54.2 feet southwest of and across 85 West Road from the southwest corner of a metal transformer box with double doors
48.5 feet northwest of and across 85 West Road from a metal telephone riser box
14.0 feet west of the centerline of 85 West Road
2.6 feet east of a north-south split rail fence line
2.4 feet east of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 26 Twp. 11W Ran. 10N , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation: Feet.	Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 444.841 Feet.	135.5878 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 20: 28.6 feet west of the centerline of 75 South Road
6.9 feet north of the south end of the concrete headwall
6.6 feet northwest of the west most metal step of the steps leading from the road to the culvert
2.6 feet south of the north end of the concrete headwall
feet north of the metal worm gear of the flood control gate

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 35 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	455.322 Feet. 138.7825 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,806,544.7237 Northing: 1,465,552.9839

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 3 AZI	0 ' "	33 0 02' 25 "	4436.6418
	0 ' "	0 ' "	
	0 ' "	0 ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 21: 21.0 feet west of the centerline of 75 South Road
 5.5 feet west of the east edge of the top of the levee
 5.0 feet east of the west edge of the top of the levee
 4.5 feet above the level of the road
 3.0 feet east of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 35 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 448.213	Feet. 136.6157 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,806,671.5872 Northing: 1,461,311.7770

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
Bayou 3 AZI	0 ' "	16 0 07 ' 15"	8,254.9873
	0 ' "	0 ' "	
	0 ' "	0 ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 22: +/- 260.0 feet east of the extended centerline of 75 West Road
 37.5 feet south of the centerline of County Line Road
 27.4 feet north of a PK nail set in a 10 foot Hedge Apple tree
 19.7 feet southwest of a PK nail set in a 10 inch locust tree
 3.0 feet west of an orange DNR witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 5 Twp. 9N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation: 482.536 Feet.	147.0773 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 25: 103.7 feet southeast of and across County Line Road from utility pole #132
98.7 feet southwest of and across County Line Road from utility pole #131
29.8 feet south of the centerline of County Line Road
17.5 feet northeast of a concrete fence corner post
9.8 feet west of the centerline of 750 West Road

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
 Sec. 36 Twp. 10N Ran. 11W , 2nd P.M. USGS 7.5' Quad: Hutton
 Agency Established by: DNR/Water Date: 1993
 Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	445.245 Feet. 135.7108 Meters

Geodetic Position: f= " l= o "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: W Zone, Easting: 2,812,334.2650 Northing: 1,461,448.8270

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 29: 42.6 feet north of the top of bank (of Round Pond)
40.7 feet northeast of a PK nail set in the side of a twin trunk maple tree 6
feet above ground)
32.8 feet northwest of a PK nail set in the side of a 12 inch maple tree
(feet above the ground)
13.0 feet south of the centerline of County Line Road
2.9 feet north of an orange D.N.R. witness post

PRIMARY SURVEY CONTROL DATA

Project Name: Greenfield Bayou County: Vigo Civil Twp: Prairie Creek
Sec. 31 Twp. 10N Ran. 10W , 2nd P.M. USGS 7.5' Quad: Hutton
Agency Established by: DNR/Water Date: 1993
Agency Recovered by: Date:

ELEVATION DATA (N.G.V.D. 1929):	Second Order Class II (DNR)
Elevation:	Feet. Meters
ELEVATION DATA (N.A.V.D. 1988):	Second Order Class II (DNR)
Elevation:	447.171 Feet. 136.2980 Meters

Geodetic Position: f= ' " l= o ' "

INDIANA STATE PLANE COORDINATES IN U.S. SURVEY FEET (one meter = 39.37 inches exactly)

State Plane Coordinates: Zone, Easting: Northing:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
	o ' "	o ' "	
	o ' "	o ' "	
	o ' "	o ' "	

DESCRIPTION OF MONUMENT, ROUTE TO STATION, AND REFERENCE MARKS

VIGO 30: 9.2 feet north of the centerline of County Line Road
2.7 feet below the top of the concrete guardrail of the bridge
2.7 feet above the ground

VIGO COUNTY

NGS BM C 293 RESET 1991

In Vigo County, Terre Haute Quadrangle, in the NW $\frac{1}{4}$ of Sec. 28, T. 12 N., R. 9 W., 2 P.M. at the City of Terre Haute, about 0.3 mile southwest of the courthouse to the intersection of Oak Street and South 1st Street, located in the Southwest Quadrant of the intersection at Fairbanks Park, 49.1' south of Oak Street centerline, 26.2' west of South 1st Street centerline(south bound lane), 5.0' southeast of Fairbanks Park wood sign, level with ground, an NGS BM control station tablet, set in the top of a concrete post stamped "C293 RESET 1991". 499.466 feet NGVD 1929 2nd Order

IDNR TBM TERRE HAUTE 1 1991

In Vigo County, Terre Haute Quadrangle, in the NW $\frac{1}{4}$ of Section 28, T. 12 N., R. 9 W., 2 P.M. at the City of Terre Haute about 0.3 mile southwest of the courthouse to the intersection of Oak Street and South 1st Street. Located in the southeast Quadrant of the intersection 16.5' feet east of south 1st street centerline 49.0' feet south of Oak Street centerline 1.2' above ground, set in the west side of utility pole #841 1525 a rail-road spike thru aluminum tag stamped "IDNR TBM Terre Haute #1, 1991". 500.400 feet NGVD 1929 2nd Order

IDNR TBM TERRE HAUTE 2 1991

In Vigo County, Terre Haute Quadrangle, in the NW $\frac{1}{4}$ of Section 28, T. 12 N., R. 9 W., 2 P.M. at the City of HAUTE Terre Haute, about 0.3 mile southwest of the courthouse to the intersection of Oak Street and South 1st Street. Located in the northeast Quadrant of the intersection 16.1' feet east of south 1st Street centerline 133.5' feet north of Oak Street centerline 1.2' feet above ground, set in the west side of utility pole #841 1526, a railroad spike thru aluminum tag stamped "IDNR TBM Terre Haute #2, 1991". 500.605 feet NGVD 1929 2nd Order

NGS BM N 360 1998

In Vigo County, New Goshen Quad, Sec. 5, T.13N., R.9W., approximately 4,244 feet south along State Road 63, from the south end of the bridge over Brouilletts Creek, approximately 2,112 feet north along State Road 63, from the east-west crossroads leading to Shepardsville, 61.5 feet west from the centerline of State Road 63, 1.6 feet east from a N. S. fence line, 1.4 feet east from a witness post, the top of a aluminum rod, inside of a plastic pipe, with a iron cap cover, stamped NGS survey point marker assess cover "N-360 1986."
352.034 feet NGVD 1929 2nd Order

DNR BM VIG 11 1987

In Vigo County, New Goshen Quad, Sec. 4, T.13., R.9W., about 0.5 mile northeast of Shepardsville, at a new concrete bridge over Brouilletts Creek, set in the top of the east concrete headwall of bridge, 16.2 feet southeast from the centerline of the bridge, 1.3 feet west-southwest from the east-northeast end of the east headwall of the bridge, an Indiana Department of Natural Resources bench mark tablet, stamped "VIG 11 1987."
488.099 feet NGVD 1929 2nd Order

DNR BM VIG 1 1986

In Vigo County, New Goshen Quad, W ½ Sec. 28, T.13N., R.9W., on the P. S. I. Power Plant property, 500 feet south from north entrance to P. S. I. Power Plant, 9.0 feet east from the most eastern rail of tracks, 2.0 feet below the rails, about level with the ground set in the top at the southeast corner of a concrete drain catch basin, a Indiana Department of Natural Resources bench mark tablet stamped "VIG 1 1986."
484.098 feet NGVD 1929 2nd Order

DNR BM VIG 2 1986

In Vigo County, New Goshen Quad, S. edge of Sec. 16, T.13N., R.9W, at Tecumseh, Indiana, 283 feet north from the centerline of a road west, 26.5 feet east from the centerline of north-south road, (26 W. Road) 4.0 feet below roadway, set in the top at the south end of the east concrete headwall of a 14 foot concrete headwall over a small tributary to Wabash River, 1.0 foot north from south end of headwall, a Indiana Department of Natural Resources bench mark tablet stamped "VIG 2 1986."
469.727 feet NGVD 1929 2nd Order

DNR BM VIG 7 1986

In Vigo County, New Goshen Quad, Sec. 32, T.13N., R.9W., on North Bolton Road, 0.1 mile northeast from its junction with State Road 63, set in the top of a 11.0 foot concrete headwall, 30.7 feet northwest from the centerline of North Bolton Road, 5.2 feet southwest from the northeast end of headwall 1.4 feet above ground, a Department of Natural Resources bench mark tablet, stamped "VIG 7 1986."
593.269 feet NGVD 1929 2nd Order

DNR TBM SHEP-VILLE 1987

In Vigo County, New Goshen Quad, at Shepardsville, Sec. 4, T.13N., R.9W., at the U.S. Post Office, set in the north side of power pole, 34.5 feet west from the centerline of road leading west, 1.2 feet above ground, a railroad spike driven thru an aluminum tag, stamped "SHEP-VILLE 1987."
504.763 feet NGVD 1929 2nd Order

DNR BM VIG 10 1987

In Vigo County, New Goshen Quad, at Shepardsville, Sec. 4, T.13N., R.9W., at the U.S. Post Office, set vertically in the south face of building, 48.7 feet north from the centerline of road west, 31.6 feet west from the centerline of north-south road, 6.0 feet west from the southeast corner of building, 1.4 feet above ground, an Indiana Department of Natural Resources bench mark tablet, stamped "VIG 10 1987"
505.751 feet NGVD 1929 2nd Order

DNR BM VIG 5 1986

In Vigo County, New Goshen Quad, at Terre Haute, NW ¼, Sec. 9, T.12N., R.9W., at the State Road 63 bridge over Wabash River, set in the top at the northwest end of the north bound bridge, on top of the southwest concrete curbing for bridge, 19.4 feet southwest from the centerline of the north bound bridge, 2.0 feet southeast from the northwest end of curbing for bridge, 0.9 feet above the highway, a Department of Natural Resources bench mark tablet, stamped "VIG 5 1986."
487.109 feet NGVD 1929 2nd Order

ISHC BM VIGO C-48

In Vigo County, New Goshen Quad, at Terre Haute, NW ¼, Sec. 9, T.12N., R.9W., at the State Road 63 bridge over the Wabash River, set in the top at the northwest end of the south bound bridge, on top of northeast concrete headwall of bridge, 19.9 feet northeast from the centerline of the south bound bridge, 7.3 feet southeast from the northwest end of headwall of bridge, level with the highway, a ISHC bench mark tablet, stamped "VIGO C- 48."
486.129 feet NGVD 1929 2nd Order

DNR BM VIG 6 1986

In Vigo County, Terre Haute Quad, at Terre Haute, Sec. 16, T.12N., R.9W., on the south side of the Woodlawn Cemetery, set in the top at the northeast corner of a 3 foot by 3 foot concrete base for flag pole, 32.7 feet south from the centerline of Second Avenue, 101.0 feet east-southeast from the northeast corner of a steel fence around a baseball field, 0.6 foot south from the north face of concrete base for flag pole, 0.6 foot above ground, a Department of Natural Resources bench mark tablet, stamped "VIG 6 1986."
499.304 feet NGVD 1929 2nd Order

DNR BM VIG 4 1986

In Vigo County, Terre Haute Quad, at Terre Haute, Sec. 9, T.12N., R.9W., at the State Road 63 bridge over Wabash River, set in the top at the southeast end of the south bound bridge, on top of the northeast concrete headwall of bridge, 20.0 feet northeast from the centerline of the southbound bridge, 0.9 foot northwest from the southeast end of headwall, 29.5 feet west from Charles Gene Abrell Memorial Plaque, level with the highway, a Department of Natural Resources bench mark tablet, stamped "VIG 4 1986."
489.269 feet NGVD 1929 2nd Order

ISHC BM (Not Stamped)

In Vigo County, Terre Haute Quad, at Terre Haute, NW ¼, Sec. 9, T.12N., R.9W., at the State Road 63 bridge over the Wabash River, set in the top at the southeast end of the north bound bridge, on top of the northeast concrete curbing of bridge, 17.5 feet northeast from the centerline of the northbound bridge, 6.0 feet west from the east end of curbing, 0.7 feet above the highway, an ISHC bench mark tablet, "NOT STAMPED."
490.294 feet NGVD 1929 2nd Order

DNR BM VIG 3 1986

In Vigo County, Rosedale Quad, Sec. 1, T.13N., R.9W., at the US Highway 41 bridge over Spring Creek, set in the top of the northeast concrete wingwall of bridge, 28.5 feet east from the centerline of the highway, 0.9 foot north from south face of wingwall, level with the highway, a Department of Natural Resources bench mark tablet stamped "VIG 3 1986."

493.119 feet NGVD 1929 2nd Order

ISHC BM C-14

In Vigo County, Rosedale Quad, Sec. 2, T.13N., R.9W., at the State Road 41 bridge over Spring Creek, set in the top at the south end of the west concrete headwall of bridge, 26.3 feet west from the centerline of highway, 0.7 foot north from the south end of headwall, 2.0 feet above the ground, an ISHC BM tablet, stamped "C-14."

494.190 feet NGVD 1929 2nd Order